



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY
STATE HISTORIC PRESERVATION OFFICE

KEVIN ELSENHEIMER
EXECUTIVE DIRECTOR

May 6, 2015

LISA PERENCHIO
EPA REGION 5
77 WEST JACKSON BLVD WU 16J
CHICAGO IL 60604

RE: ER14-141 Atwell Group Well Project - MPC DD Pad#1, Sec. 31, T17N, R8W,
Evart Township, Osceola County (EPA)

Dear Ms. Perenchio,

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the State Historic Preservation Officer (SHPO) that **no historic properties are affected** within the area of potential effects of this undertaking.

This letter evidences the EPA's compliance with 36 CFR § 800.4 "Identification of historic properties," and the fulfillment of the EPA's responsibility to notify the SHPO, as a consulting party in the Section 106 process, under 36 CFR § 800.4(d)(1) "No historic properties affected." **If the scope of work changes in any way, or if artifacts or bones are discovered, please notify this office immediately.**

The State Historic Preservation Office is not the office of record for this undertaking. You are therefore asked to maintain a copy of this letter with your environmental review record for this undertaking.

If you have any questions, please contact Brian Grennell, Cultural Resource Management Specialist, at (517) 335-2721 or by email at GrennellB@michigan.gov. **Please reference our project number in all communication with this office regarding this undertaking.** Thank you for this opportunity to review and comment, and for your cooperation.

Sincerely,

Brian Grennell
Cultural Resource Management Specialist

for Brian D. Conway
State Historic Preservation Officer

SAT:BGG

Copy: J. Dean Geers, Atwell





March 30, 2015

Mr. Brian Conway
State Historic Preservation Office
Environmental Review Office
Michigan Historical Center
702 W. Kalamazoo Street, P.O. Box 30740
Lansing, MI 48909-8240

**RE: Section 106 Review Request
New Well Pad
Well Name: MPC DD Pad#1
T17N, R08W, Sec. 31, NW¼, NW¼
Ewart Township, Osceola County**

Dear Mr. Conway,

Michigan Potash Company is proposing to construct a well drilling pad for the purposes of drilling multiple underground injection wells and solution mining wells. In order to apply for a Class I or Class III United States Environmental Protection Agency (USEPA) permit, the USEPA regulations require a determination that the project will not impact any properties listed or eligible for listing in the National Register of Historic Places. Enclosed, please find a completed Section 106 review application pertaining to the proposed well pad along with the required attachments. For your reference, the subject pad is the same pad previously reviewed by your office in connection with the MPC-1D & MPC-2D well applications (ER14-141). Please feel free to contact our office if you should have any questions.

We request that you make your reply directly to:

USEPA
Region 5
77 W. Jackson Bld. WU 16J
Chicago, IL 60604

With a copy to: Atwell
Attn. J. Dean Geers
7192 E. 34 Road, Suite 4
Cadillac, MI 49601

We wish to thank you in advance for your timely review of this matter.

Respectfully,
ATWELL

J. Dean Geers, P.S. Project Manager

Enclosures

cc: Atwell File 14001984.01

STATE HISTORIC PRESERVATION OFFICE
Application for Section 106 Review

SHPO Use Only			
<input type="checkbox"/> IN	Received Date ____ / ____ / ____		Log In Date ____ / ____ / ____
<input type="checkbox"/> OUT	Response Date ____ / ____ / ____		Log Out Date ____ / ____ / ____
	Sent Date ____ / ____ / ____		

Submit one copy for each project for which review is requested. This application is required. Please type. Applications must be complete for review to begin. Incomplete applications will be sent back to the applicant without comment. Send only the information and attachments requested on this application. Materials submitted for review cannot be returned. Due to limited resources we are unable to accept this application electronically.

I. GENERAL INFORMATION

- ☒ THIS IS A NEW SUBMITTAL ☐ THIS IS MORE INFORMATION RELATING TO ER#
- ☐ Funding Notice
- ☐ Survey
- ☐ MOA or PA
- ☒ Other: Directional Drilling Pad

- a. Project Name: MPC DD Pad#1
- b. Project Address (if available): N/A-Project lies in the NW 1/4, NW 1/4 of Section 31, T17N, R08W
- c. Municipal Unit: Evert Twp. County: Osceola Co
- d. Federal Agency and Contact (If you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.): USEPA Region 5
- e. State Agency and Contact (if applicable): MDEQ Cadillac Office
- f. Consultant or Applicant Contact Information (if applicable): Michigan Potash Company

II. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, ETC.)

DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? ☒ YES ☐ NO (If no, proceed to section III.)

Exact project location must be submitted on a USGS Quad map (portions, photocopies of portions, and electronic USGS maps are acceptable as long as the location is clearly marked).

- a. USGS Quad Map Name: Chippewa Lake North, Michigan
- b. Township: 17N Range: 08W Section: 31
- c. Description of width, length and depth of proposed ground disturbing activity: 410'L x 250'W x 4'D
- d. Previous land use and disturbances: Cultivated Field
- e. Current land use and conditions: Dormant Field
- f. Does the landowner know of any archaeological resources found on the property? NO
Please describe:

III. PROJECT WORK DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE)

Note: Every project has an APE.

- a. Provide a detailed written description of the project (plans, specifications, Environmental Impact Statements (EIS), Environmental Assessments (EA), etc. cannot be substituted for the written description): See attached
- b. Provide a localized map indicating the location of the project; road names must be included and legible.
- c. On the above-mentioned map, identify the APE.
- d. Provide a written description of the APE (physical, visual, auditory, and sociocultural), the steps taken to identify the APE, and the justification for the boundaries chosen. See attached

IV. IDENTIFICATION OF HISTORIC PROPERTIES

- a. List and date all properties 50 years of age or older located in the APE. If the property is located within a National Register eligible, listed or local district it is only necessary to identify the district: There are no structures over 50 years of age within the 200' APE.
 - b. Describe the steps taken to identify whether or not any historic properties exist in the APE and include the level of effort made to carry out such steps: Site visit, check of historical registry, inquire of landowner, no known event of common knowledge
 - c. Based on the information contained in "b", please choose one:
☐ Historic Properties Present in the APE
☒ No Historic Properties Present in the APE
 - d. Describe the condition, previous disturbance to, and history of any historic properties located in the APE: N/A
-

V. PHOTOGRAPHS

Note: All photographs must be keyed to a localized map, and should be included as an attachment to this application.

- a. Provide photographs of the site itself.
 - b. Provide photographs of all properties 50 years of age or older located in the APE (faxed or photocopied photographs are not acceptable).
-

VI. DETERMINATION OF EFFECT

- ☒ No historic properties affected based on [36 CFR § 800.4(d)(1)], please provide the basis for this determination.

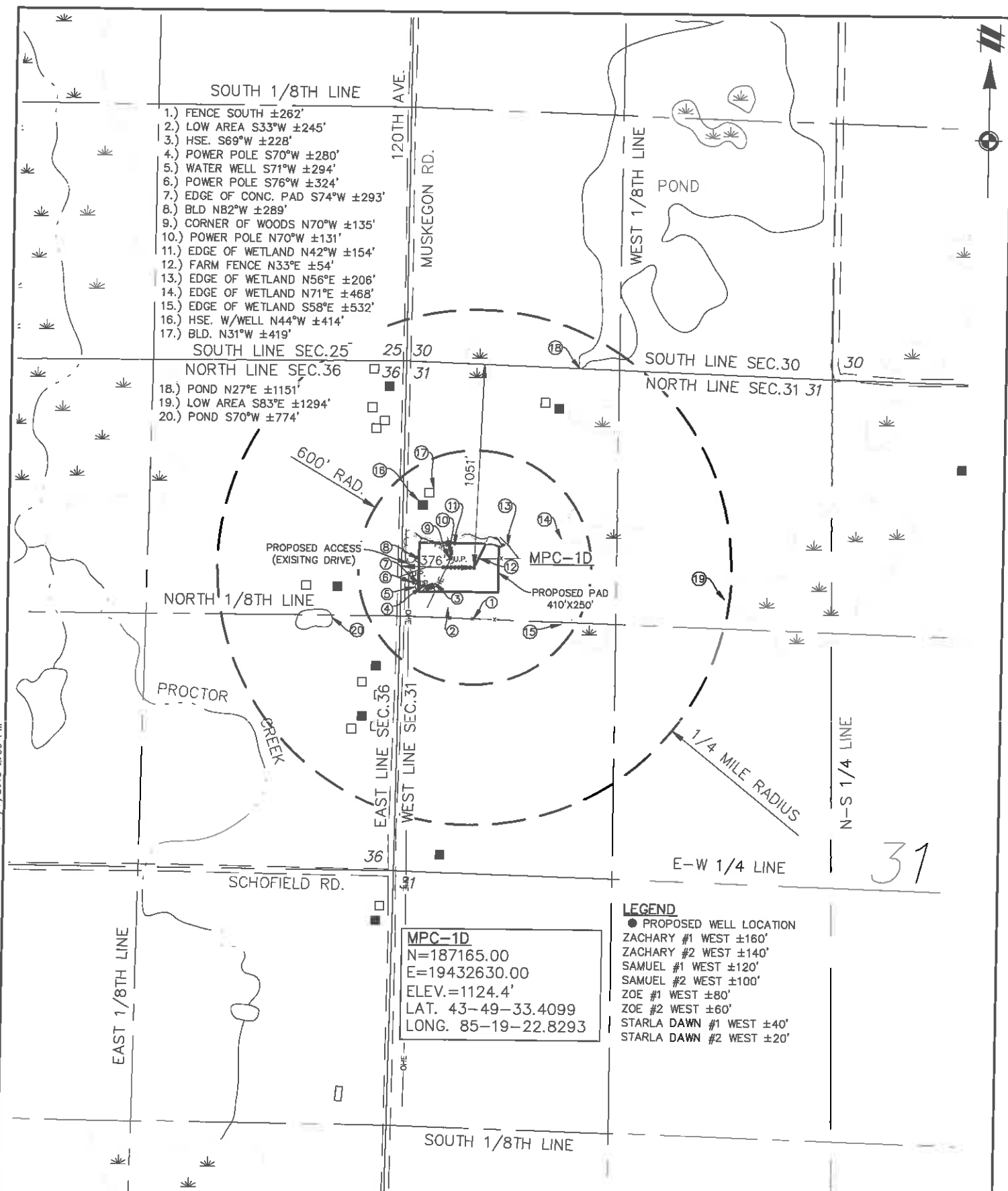
There is no historic structures or objects, no information in the historical registry, no historical event known to take place and no other indication that historic properties lie within the physical APE.

- ☐ No Adverse Effect [36 CFR § 800.5(b)] on historic properties, explain why the criteria of adverse effect, 36 CFR Part 800.5(a)(1), were found not applicable.

- ☐ Adverse Effect [36 CFR § 800.5(d)(2)] on historic properties, explain why the criteria of adverse effect, [36 CFR Part 800.5(a)(1)], were found applicable.

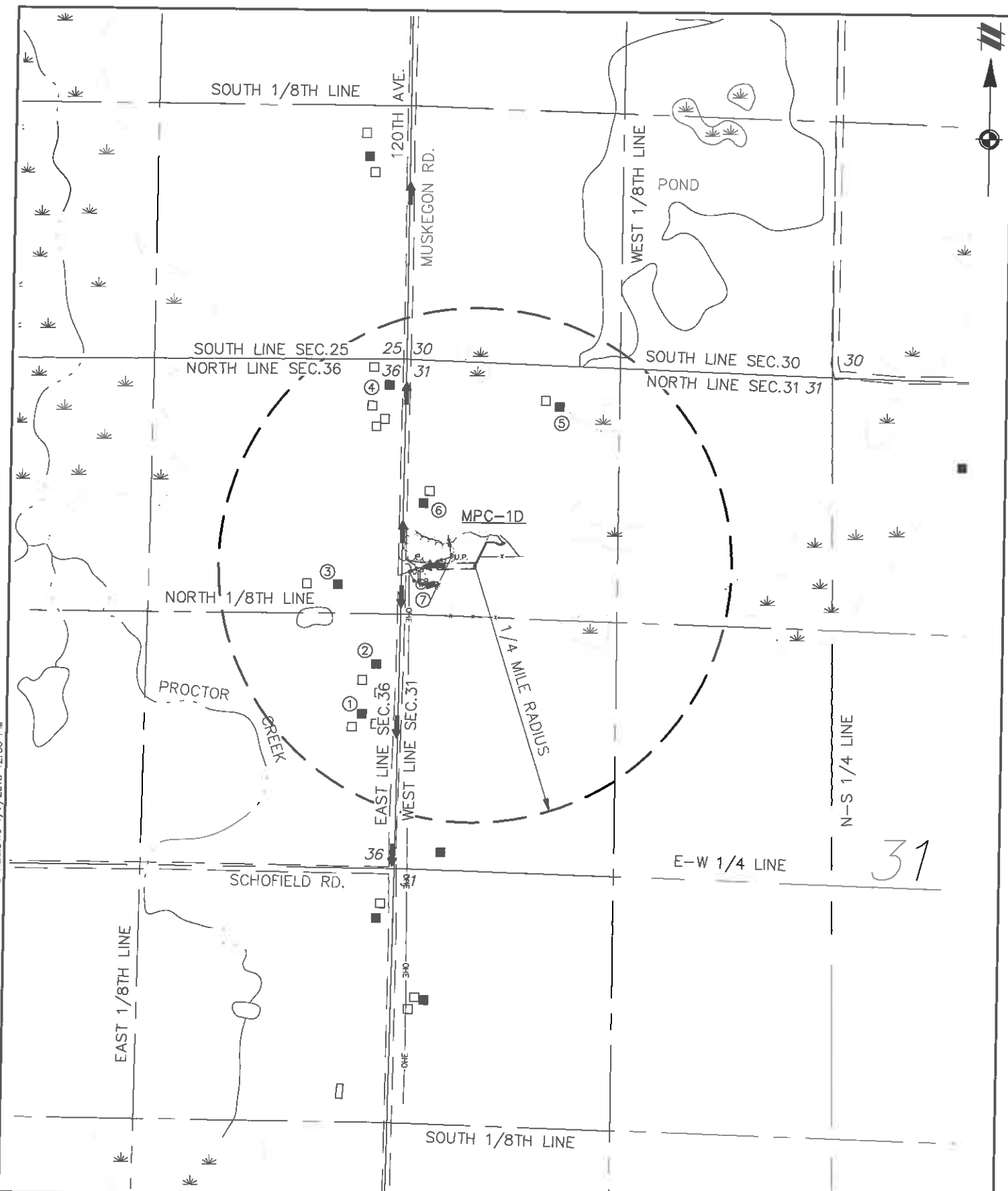
Please print and mail completed form and required information to:

***State Historic Preservation Office, Environmental Review Office, Michigan Historical Center, 702
W. Kalamazoo Street, P.O. Box 30740, Lansing, MI 48909-8240***



JOB NO.:
14001984.01

K:\14001984.01 - MPC 1D\DWG\PLAN SETS\OIL-GAS DRAWINGS\14001984-01 MPC-1D H2S.DWG 1/7/2015 12:36 PM



H2S EVACUATION: MPC 1D
SEC. 31, T17N-R8W
EVART TWP.
OSCEOLA COUNTY, MICHIGAN

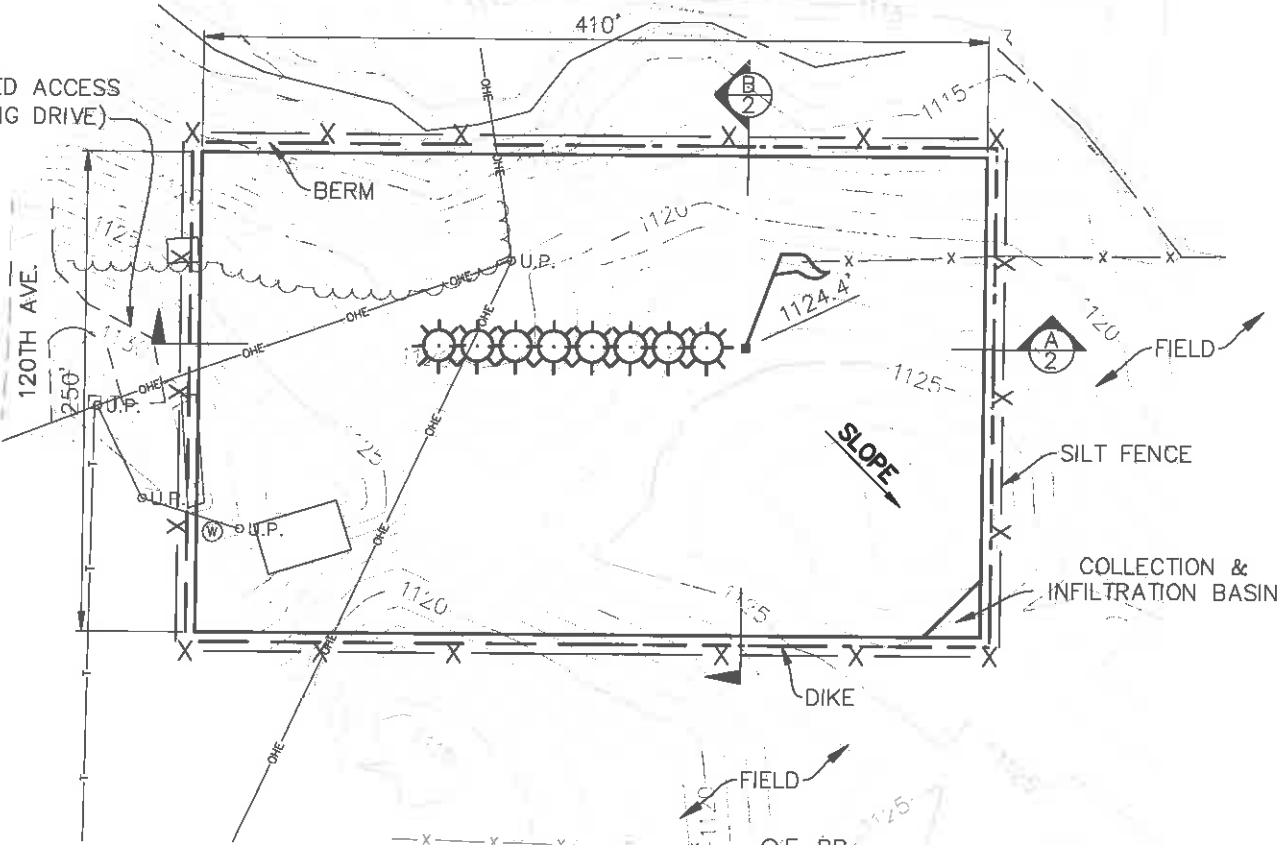
CLIENT: MICHIGAN POTASH COMPANY

DATE: 12/19/14
DRN: SJV
SCALE: 1"=660'



F.B. PAGE.	1427 10	SHEET 1 OF 1	JOB NO.: 14001984.01
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PROPOSED ACCESS
(EXISTING DRIVE)



NOTES:

- 1.) EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO START OF GRADING OPERATIONS.
- 2.) EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE CLEANED AND/OR REPLACED WHEN THEY REACH 40% CAPACITY (INCLUDING INFILTRATION BASIN).
- 3.) ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PER ACT 347, P.A.1972 AS AMENDED.
- 4.) SET ELEVATIONS FOR WELL PAD TO MINIMIZE MASS GRADING QUANTITY (1123'±).
- 5.) SLOPE WELL PAD SOUTHWESTERLY AT ±2% TO MAINTAIN A WELL DRAINED WORK AREA DURING DRILLING OPERATIONS.
- 6.) A COLLECTION & INFILTRATION BASIN SHALL BE CONSTRUCTED AT THE SOUTHEAST CORNER OF PAD IF NEEDED.
- 7.) SLOPES SHALL BE FINE GRADED TO MAXIMUM SLOPE TO 2:1 TO MINIMIZE EROSION. IN ALL FILL AREAS, THE EDGES SHALL BE DIKED TO PREVENT EROSION. CUT SLOPES SHALL BE CONTOURED AND COMPACTED.
- 8.) AN UPSLOPE DIVERSION BERM AND DIVERSION CHANNEL SHALL BE CONSTRUCTED ALONG THE NORTH AND WEST SIDES OF THE LOCATION.
- 9.) ARMOR, SILT FENCING OR OTHER SOIL EROSION CONTROL MEASURES SHALL BE UTILIZED AS NEEDED.
- 10.) ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED FOLLOWING THE COMPLETION OF GRADING OPERATIONS, WEATHER PERMITTING.

EROSION CONTROL PLAN:MPC-ID
SEC.31, T17N-R8W
EVART TWP.
OSCEOLA COUNTY, MICHIGAN

CLIENT: MICHIGAN POTASH COMPANY

DATE:
12/18/14
DRN:
SJV

SCALE:
1"=100'



ATWELL
866.850.4200 | www.atwell-group.com
7192 EAST 34 ROAD, SUITE 4
CADILLAC, MI 49601
231.775.3000

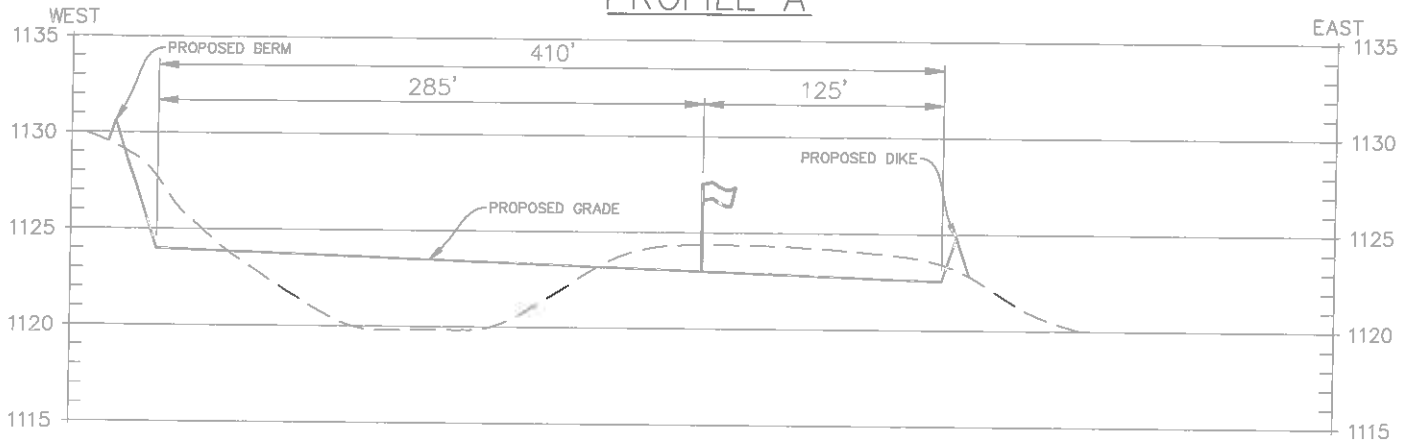
Land Development & Real Estate
Power & Energy
Infrastructure & Transportation
Environmental & Solid Waste
Water & Natural Resources

F.B. 1427
PAGE. 10

SHEET
1 OF 2

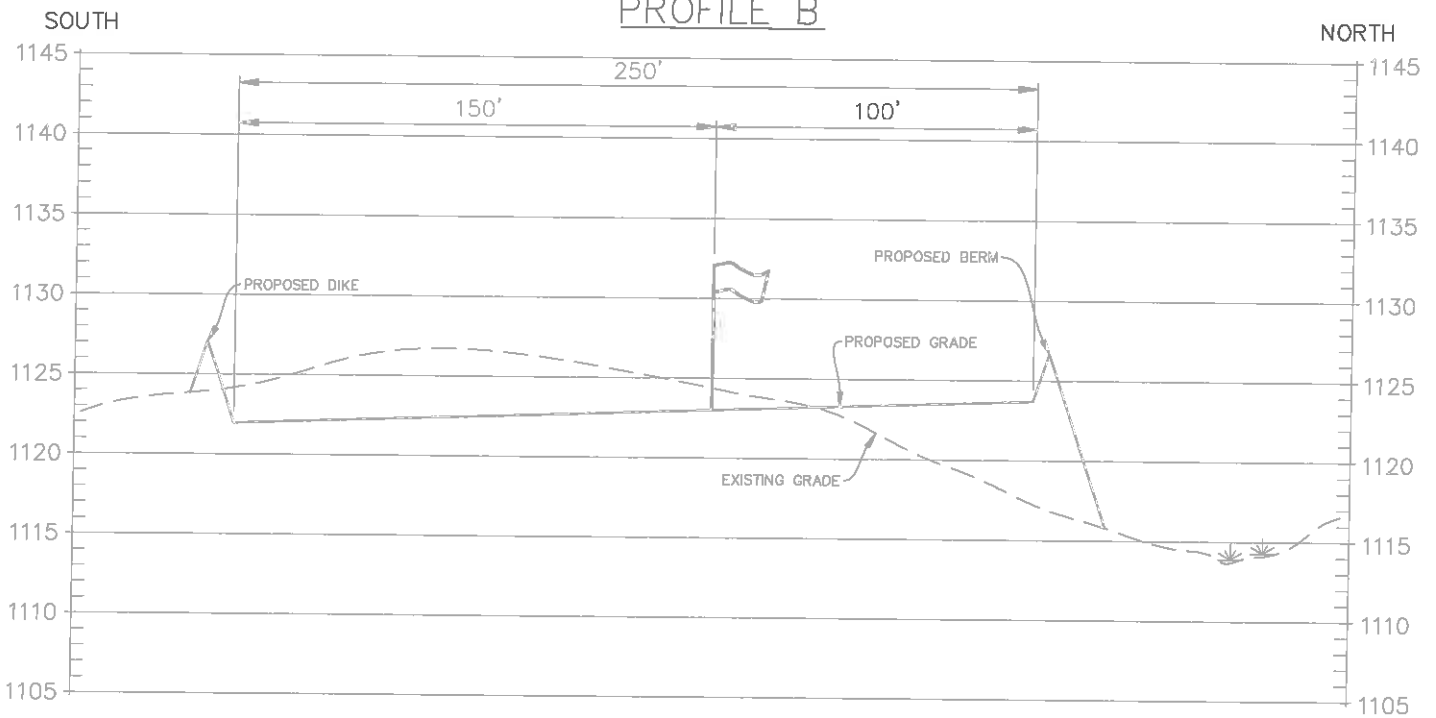
JOB NO.:
14001984.01

PROFILE A



SCALE:
HORIZONTAL: 1"=100'
VERTICAL: 1"=10'

PROFILE B



SCALE:
HORIZONTAL: 1"=60'
VERTICAL: 1"=6'

EROSION CONTROL PLAN: MPC-ID
SEC. 31, T17N-R8W
EVART TWP.
OSCEOLA COUNTY, MICHIGAN

CLIENT: MICHIGAN POTASH COMPANY

DATE:
12/9/14

DRN:
SJV

SCALE:
1"=60'



ATWELL
866.850.4200 | www.atwell-group.com
7102 EAST 34 ROAD, SUITE 4
CADILLAC, MI 49601
231.775.3000

Land Development & Real Estate
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Environmental & Solid Waste
Water & Natural Resources

F.B. 1427
PAGE. 10

SHEET
2 OF 2

JOB NO.:
14001984-01